

Fig. 1

DENDRITIC REACTION PROCESS

Raw material
+
Water
+
Catalyst
for
3-10 minutes

@
430-470.degree.C

Carbon Dioxide

Amines + Ammonia

Hydrocarbons

Glycerol + water

+ water soluble salts

Solid compost

gas or solid entrapment

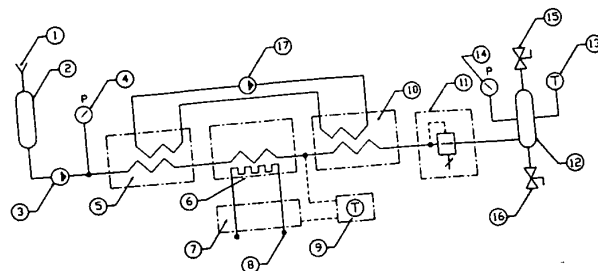
gas, liquid or solid entrapment

fractional distillation

phase separation

filtration

Fig. 2



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|----|------------------------------|-----|--------------------------|
| 1- | Feeding Hopper | 10- | Secondary heat exchanger |
| 2- | Holding Reservoir | 11- | Back Pressure Regulator |
| 3- | High Pressure Pump | 12- | Gas/Liquid Separator |
| 4- | Pressure Gauge | 13- | Temperature Meter |
| 5- | Primary Heat Exchanger | 14- | Pressure Gauge |
| 6- | Heating Coil | 15- | Gas Collection Valve |
| 7- | Power Control | 16- | Liquid Collection |
| 8- | Power Supply | 17- | Heat Transfer Media Pump |
| 9- | Temperature Meter/Controller | | |